



a division of *OPTI-VUE, INC.*

OPERATION AND MAINTENANCE INSTRUCTIONS

A.I.T. SPEEDE BLOCKER AB

Model No. 01001

Manufactured By

A.I.T. INDUSTRIES

IMPORTANT NOTICE

Read all instructions in this
Manual before operating machine.

6 JAN 1997

FOREWORD

Your SPEEDE BLOCKER AB was engineered and produced to give you satisfactory service with minimum maintenance. To ensure years of trouble-free operation, follow the maintenance procedures and adjustments including lubrication.

BEFORE CALLING FOR SERVICE:

- Take a few moments to review the operating, calibration and maintenance Instructions in this manual
- Should a call be necessary, please identify the equipment by model number, serial number, and electrical specification on the ID plate located at the bottom rear of the equipment.

WARNING!

- Always follow safety precautions when operating and servicing this equipment.
- Do not plug or unplug power cord with power switch in the ON position.
- Always use proper grounding type receptacle for the plug.
- Always use proper tools when making recommended adjustments.

WARRANTY

The SPEEDE BLOCKER AB is backed by a one-year warranty on all mechanical and electrical parts that this equipment t be free of any defects in materials and workmanship due to normal use. In the event of any defects, replacement parts will be provided fee of charge. If you are unable to make the repairs, the SPEEDE BLOCKER AB must be returned to an Authorized Distributor or to the Factory in Elmhurst, Illinois where these repairs will be performed at no charge.

CONDITIONS:

This warranty covers all mechanical and electrical parts except those damaged by accident, misuse or subsequent loss or damage. It is your responsibility to prevent damages caused in shipment and to insure adequately any SPEEDE BLOCKER AB returned to the factory for repairs. This warranty does not apply to light bulbs.

SECTION 1

FEATURES AND OPERATION

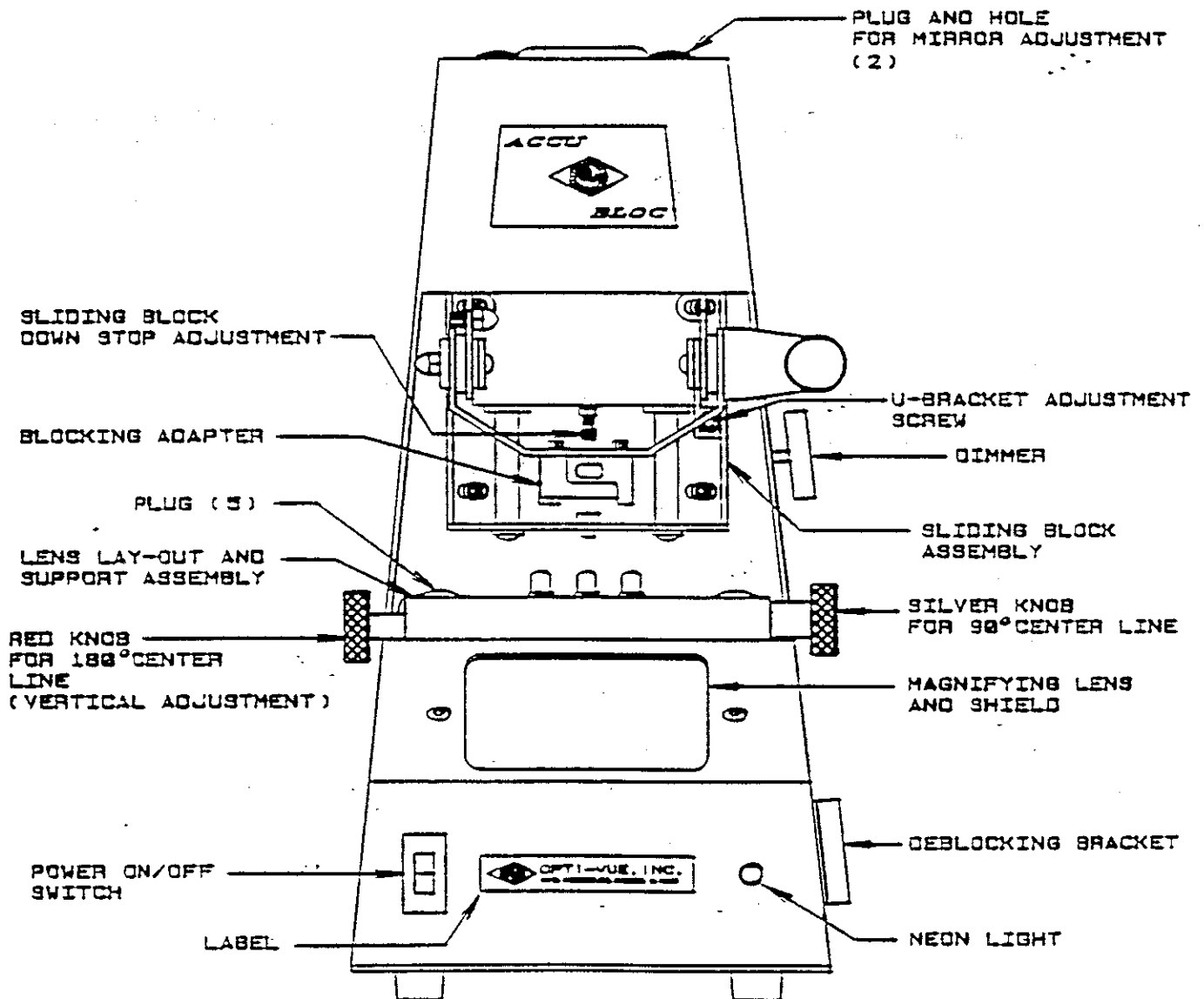


Figure 1-1. ACCU-BLOC components and adjustments

FEATURES AND SPECIFICATIONS

FEATURES:

- * Enlarge vision screen for ease of viewing and blocking.
- * Internally projected lens layout area compatible with office or shop ambient lighting.
- * Comfortable viewing angle.
- * Unique horizontal and vertical alignment adjustments.
- * Supplied with two layout scales for easier viewing of bifocal lenses.
- * Built-in deblocker for convenient removal of blocking body from lens.
- * Positive chucking for all leap blocking systems.

Your ACCU-BLOC is shipped with the adapter you requested.

Standard adapters are:

<u>Part No.</u>	<u>Description</u>
7150	Blocking Adapter for 3M 'LEAP' A.I.T. Blocks
7151	Blocking Adapter for 3M 'LEAP' A.O./Semi Tech Blocks
7152	Blocking Adapter for 3M 'LEAP' Coburn Blocks
7153	Blocking Adapter for 3M 'LEAP' Shuron Blocks

Other blocking adapters are available on request. Call your authorized distributor or the factory for more information.

SPECIFICATIONS:

ACCU-BLOC Adhesive Blocker

Opti-Vue Model No. 1001

Width: 8.375 in (22.2 cm)

Height: 16.75 in (42.5 cm)

Depth: 12.75 in (32.4 cm)

Electrical Requirements:

Voltage: 120 VAC

Frequency: 50/60 Hertz

Current: 1.00 Amps

Accessories: (Items Supplied)

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	83515	Light Bulb
1	27015	Layout scale w/o center grid
1	27016	Layout scale with center grid
3	27021	Lens Support Pin cap
1	40601	Instruction Book

SECTION 2

OPERATION

1. Connect power cord plug to correct A-C wall outlet. Turn on power switch. The red pilot light will indicate that power is on.
2. Turn on dimmer switch control by turning the knob clockwise.
3. Check if blocking adapter assembly is properly installed.
4. Put on the corresponding LEAP body and the adhesive pad.
5. Start with the vertical and horizontal alignment lines at the origin (0,0).
6. According to prescription, move the red knob up and down the no. mm. for the desired seg setting, and the silver knob left or right for the no. mm. in or out.
7. Lay the lens so that the top of the seg is aligned with the 180 degree center line. If the lens has dot markings, align the 180 degree center line with the dots.
8. Note the calibrated sizing circles (52, 65, 71, 80). the lens should be within the circle of the size to be cut.
9. Pull the lever hand forward and note that the shadow of the 3 holes in the Blocker Adapter are aligned with the 180 degree center line.
10. Push the lever hand downward to block the lens.

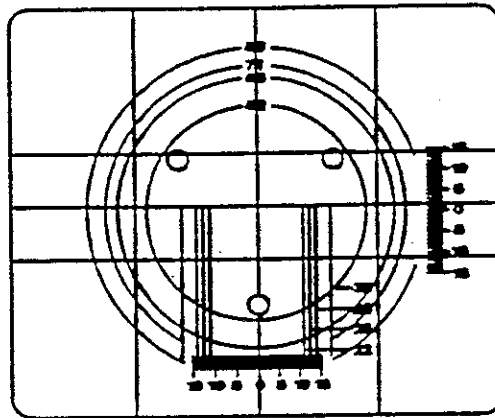


Figure 2-1 Screen view using 27015 Layout Scale

SECTION 3

MAINTENANCE AND ADJUSTMENTS

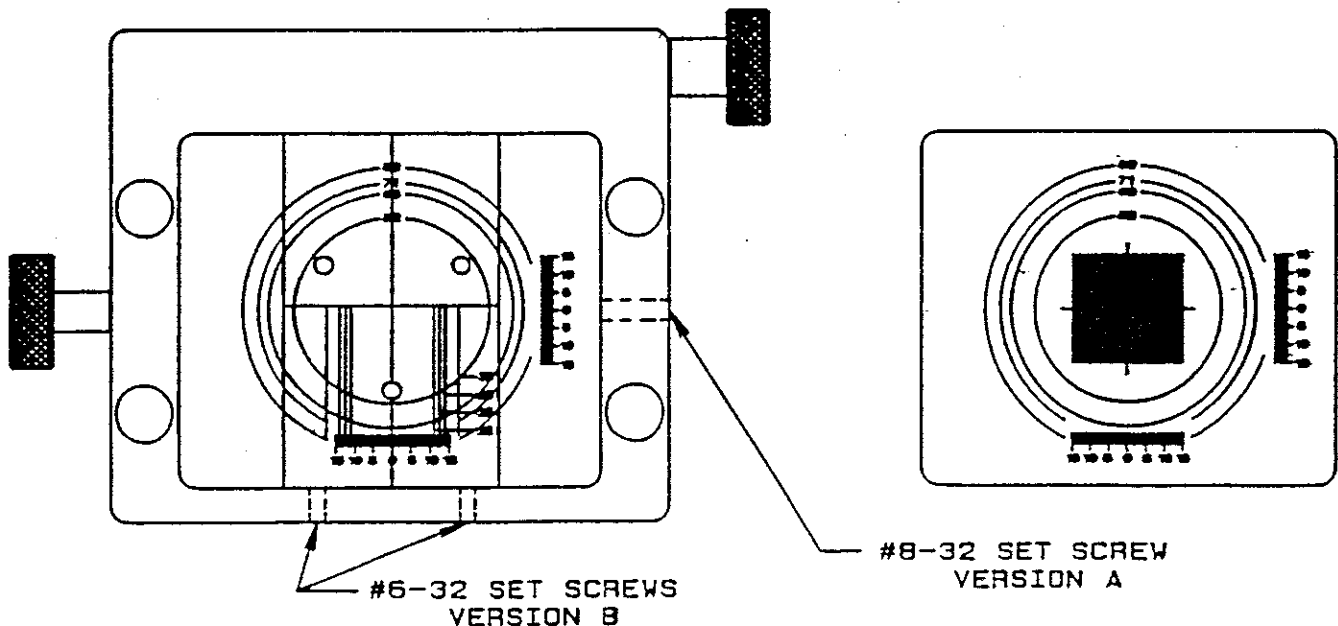
I. MAINTENANCE

A. LUBRICATION

1. Your ACCU-BLOC is shipped fully lubricated and ready to use. Occasionally, it may be necessary, it may be necessary to lubricate the sliding shaft.
2. Do not use WD-40 or any oil-based lubricants.
3. If lubrication is necessary, we recommend Petroleum Jelly. If Petroleum Jelly is not available, you may use TRI-FLOW lubricant with Teflon, or CRC heavy duty silicone.

B. REPLACING THE LAYOUT SCALE

1. Turn the red and silver knob adjustments so that the vertical and horizontal alignment lines are at center (0,0).
2. Using a 1/16 Allen-wrench, loosen the set screw holding the lens support plate (this screw is located at the right side of the Lens Layout Assembly).
Note: In some units, the holding screws are two 6-32 set screws located at the front.
3. Remove the plastic lens support plate.
4. With a small knife or a small screw driver, pop out the lay-out scale from one of the corners or the small notch on the side of the vertical mm. scale.
5. Drop in the other lay-out scale, making sure that the zeros are lined up with the 180 and 90 degree alignment lines.
6. Replace the lens support plate and slowly tighten the set screw.



C. REPLACING THE LIGHT BULB (See Figure 3-2)

Caution: Make sure the power switch is off and the light bulb is cold before starting this procedure.

1. Turn the U-bracket assembly so that the handle is horizontal.
2. With one hand, push the U-bracket down.
3. With the other hand, push in the light bulb while turning it counter clockwise approximately 1/4 turn and then release it. The light bulb should now pop out.
4. Push in a new light bulb and turn it clockwise approximately 1/4 turn.

D. CLEANING THE LOWER MIRROR

1. Use a pencil to trace an outline to mark the mounting position of the Lens Layout and Support Assembly.
2. Loosen the four screws (10-24 x 5/8 socket head cap) holding the Lens Layout and Support Assembly, and by lifting out this assembly, you now have access to the lower mirror.
3. The mirror can now be cleaned using a soft cloth and glass cleaner.

II. ADJUSTMENTS

NOTE: THE ACCU-BLOC IS SHIPPED TO YOU COMPLETELY ADJUSTED AND SET-UP. NORMALLY, FURTHER ADJUSTMENT IS NOT NECESSARY.

A. SLIDING BLOCK DOWN STOP ADJUSTMENT (Figure 1-1)

This adjustment may be necessary to limit the downward travel of the sliding block assembly and avoid damage to the lens and/or the lens support pin cap.

1. Use a 3/8 wrench to loosen the nut in the sliding block down stop adjustment screw (10-24 socket head cap).
2. Slowly bring down the sliding block assembly and adjust the adjustment screw while the sliding block is down.
3. Tighten the hex nut with the 3/8 wrench.

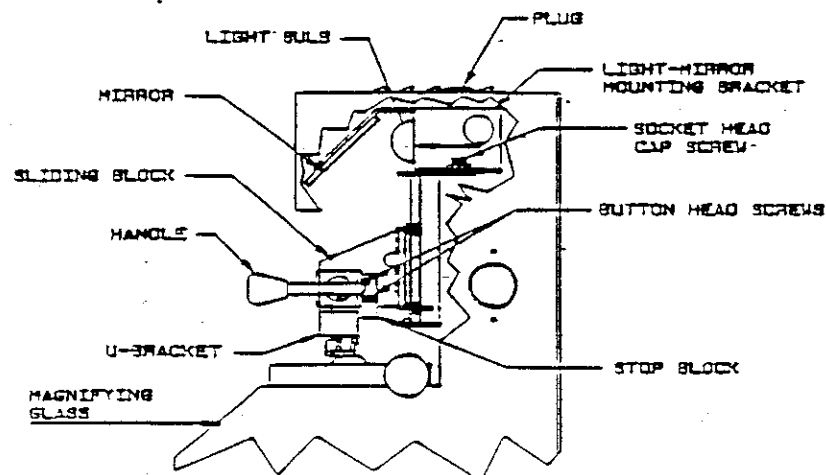


Figure 3-2 Adjustments

B. ROTATING THE BLOCKING ADAPTER (Figure 3-3)

1. Use a 7/64 Allen Wrench to remove the two socket head screws. The Blocking Adapter should now drop down.
2. Turn the Blocking Adapter around and put it back into the U-Bracket, using the guide pin. Note that the rear edge of the Blocking Adapter should come in contact with the axis adjustment screw, as shown in Figure 3-3.
3. Replace and tighten the two socket head screws.

C. ADJUSTING THE AXIS (Figure 3-3)

1. Block the lens and see if the Blocking Adapter is lined up with the 180 degree or the 3 dots marked on the lens.
2. If the 3 dots are offset by an equal amount, there is no need for an axis adjustment, but the up and down adjustment screw has to be adjusted (Figure 3-2). If one side is not lined or if the axis of the Block is not parallel with the 3 dots on the lens, then axis adjustment is needed.
3. Pull the handle so that the Blocking Adapter is facing down.
4. Loosen the two socket head screws with a 7/64 Allen Wrench and push the handle back up.
5. If the left dot is below the axis line, turn the set screw with a 5/64 Allen Wrench to enable you to turn the Blocking Adapter clockwise.
6. If the left dot is above the axis line, turn the set screw with a 5/64 Allen Wrench to enable you to turn the Blocking Adapter counter clockwise.
7. Note that for either step 5 or 6, the Blocking Adapter should rest against the set screw after making the adjustment.
8. Pull the handle down and tighten the two socket head screws.

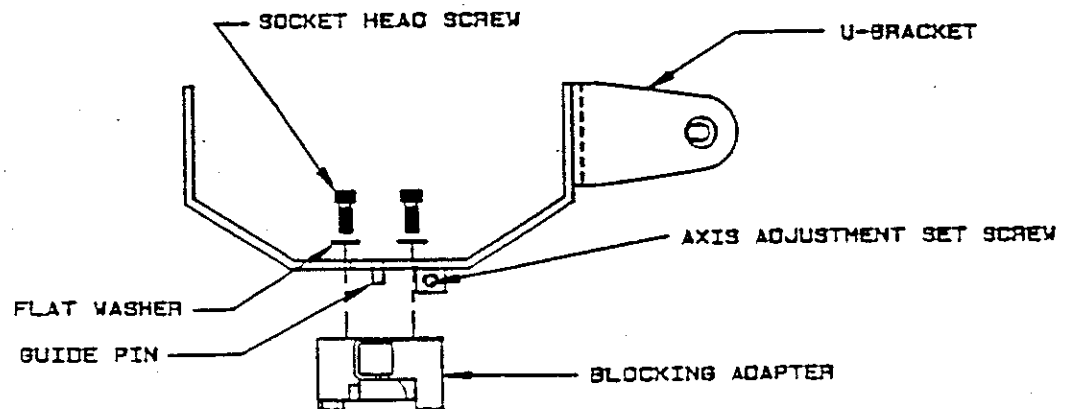
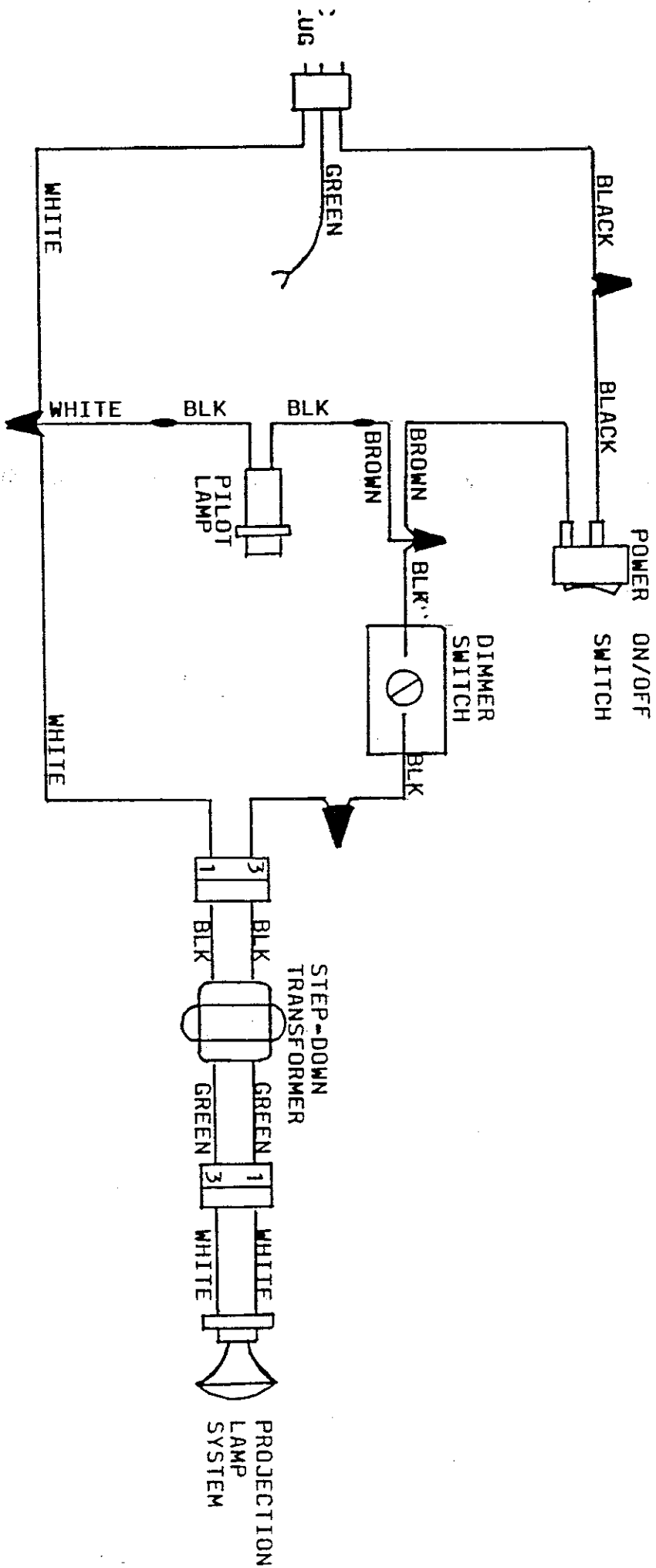


Figure 3-3 Blocking Adapter Rotation and Axis Adjustment

ITEM NO.	PART NO.	QTY	DESCRIPTION
	1001		ACCU-BLOC Adhesive Blocker
1	2101	1	Lens Layout and Support Assembly
2	2102	1	180 Degree Line Centering Plate Assembly
3	27019	1	180 Degree Centering Line Plate
4	48012	1	180 Degree Centering Line Plate Gear Rack
5	27017	1	Lens Support Plate
6	27018	1	Seg Centering Plate
7	27020	1	Lens Support Plate
8	27021	3	Lens Support Pin Cap
9	30037	1	Lens Layout Housing
10	30038	1	Seg Plate Mounting Nut
11	30039	1	Pinion and Rack Retainer
12	30040	1	Seg Positioning Screw
13	44059	1	Knob Bushing (7/16 I.D.)
14	44060	1	Seg Positioning Screw Bushing
15	44061	2	Pinion Shaft Bushing (3/16 I.D.)
16	48011	1	Special Pinion Gear
17	50005	1	Seg Centering Knob - Silver
18	50006	1	180 Degree Centering Line Plate Knob - Red
19	55011	1	Gear Rack Retaining Spring
20	55012	1	Curved Spring Washer, 1/4
21	55013	1	Curved Spring Washer, 3/16
22	65024	1	Nylon Washer, 7/16 I.D.
23	65025	1	Nylon Washer, 0.200 I.D.
24	65026	2	Nylon Washer, 1/4 I.D.
25	65027	2	Nylon Washer, 0.192 I.D.
26	60087	2	S.H.C. Screw, 6-32 x 1/2
27	60128	1	Set Screw, 8-32 x 3/8
28		1	Set Screw, 8-32 x 1
29		1	B.H.S. w/ Patch, 8-32 x 1/2
30		2	B.H.S. 10-24 x 3/8
31		2	#10 Plastic Washer
32		1	#8 Washer
33	2103	1	Sliding Block Holder and U-Bracket Assembly
34	24043	1	Sliding Block Holder
35	27023	2	Pivot Bushing
36	55009	2	Curved Spring Washer
37	55010	1	Extension Spring
38	56014	2	Sliding Shaft Block
39	65004	4	Special Flat Washer
40	65012	2	Special Flat Washer
41	65023	2	Nylon Washer
42	2104	1	Sliding Block Assembly
43	24044	1	Sliding Block
44	27023	2	Pivot Bushing
45	27024	4	Sliding Block Bushing
46	30036	2	Pivot Hinge
47	44081	4	External Ring Truarc
48	51015	2	Tension Pin - 1/8 x 1/4

ITEM NO.	PART NO.	QTY	DESCRIPTION
49	55009	2	Curved Spring Washer
50	55010	1	Extension Spring
51	56014	2	Sliding Block Shaft
52	60006	2	10-24 x 7/8 Button Head Screw
53	60008		10-24 x 3/8 Socket Cap Screw
54	68002	2	10-24 Cap Nut
55			#10 Lock Washer
56	2105	1	U-Bracket Assembly
57	24045	1	U-Bracket
58	30050	1	U-Bracket Handle
59	50007	1	U-Bracket Handle Knob
60	51015	3	Tension Pin - 1/8 x 1/4
61	2106	1	Lower Mirror Assembly
62	24041	1	Lower Mirror Bracket
63	27025	1	Lower Mirror
64	2107	1	Upper Mirror Assembly
65	8257	1	Porcelain Lamp Assembly
66	83517	1	Porcelain Socket
67	83701	1	Pin Housing, 3 Positions
68	83711	2	Pin, Molex
69	24042	1	Light and Upper Mirror Mounting Bracket
70	27026	1	Upper Mirror
71	83515	1	Light Bulb
72	8259	1	Step Down Transformer Assembly
73	81304	1	Step Down Transformer
74	83701	1	Pin Housing, 3 Positions
75	83703	1	Socket Housing, 3 Positions
76	83711	2	Pin, Molex
77	83712	3	Socket, Molex
78	24035	1	Accu-Bloc Housing
79	24037	1	Back Cover
80	24039	1	Bottom Cover
81	24047	1	Deblocking Bracket
82	65004	12	Special Washer
83	83516	1	Neon Light (Power Indicator)
84	87013	1	Power Switch
85	87016	1	Light Dimmer
86		8	S.C.H.S. 10-24 x 5/8



ALL WIRES 20 GAUGE